

Original sequence taken from the listeria paper:

UGUAAAAACAUCAUUUAGCGUGACUUUCUUAACAGCUAACAAUUGUU
GUUACUGCCUAAUGUUUUUAGGGUAUUUUAAAAAAGGGCGAUAAAAACG
AUUGGGGGAUGAGACAUGAACGCUCAAGCA

Energy: -23.5

Mutation1

UGUAAAAACAUCAUUUAGCGUGACUUUCCAAUUUCAGCUAACAAUUGUU
GUUACUGCCUAAUGUUUUUAGGGUAUUUUAAAAAAGGGCGAUAAAAACG
AUUGGGGGAUGAGACAUGAACGCUCAAGCA

Energy:-25.4

MutationSD

UGUAAAAACAUCAUUUAGCGUGACUUUCUUAACAGCUAACAAUUGUU
GUUACUGCCUAAUGUUUUUAGGGUAUUUUAAAAAAGGGCGAUAAAAACG
AUUGGAGGAGGUUGAGACAUGAACGCUCAAGCA

Energy:-31.8

MutationSD2:

UGUAAAAACAUCAUUUAGCGUGACUUUCUUAACAGGGAACAAUUGUU
GUUACUGCCUAAUGUUUUUAGGGUAUUUUAAAAAAGGGCGAUAAAAACG
AUUGGAGGAGGUUGAGACAUGAACGCUCAAGCA

Energy:-27.9

Mutation GriffLong:

Cut 14nt from 5' and ant from 3'; Changed SD to GGAGG from GGGGG.

UUUAGCGUGACUUUCUUAACAGCUAACAAUUGUUGUUACUGCCUAAUG
UUUUUAGGGUAUUUUAAAAAAGGGCGAUAAAAACGAUUGGAGGAUGAGA
CAUGAACGCUCAA

Energy:-24.1

Mutation GriffLong+:

Added the correct 2 bases back onto the GriffLong.

CAUUUAGCGUGACUUUCUUAACAGCUAACAAUUGUUGUUACUGCCUAA
UGUUUUUAGGGUAUUUUAAAAAAGGGCGAUAAAAACGAUUGGAGGAUGA
GACAUGAACGCUCAAGC

Energy:-24.1

Mutation GriffMed:

Cut a sequence to shorten the loops.

UUUAGCGUGACUUUCUUAACAGCUAACAAUUGUUGUUACUGCCUAAUG
UAAGGGCGAUAAAAACGAUUGGAGGAUGAGACAUGAACGCUCAA

Energy:-22.9

Mutation GriffShort:

Cut another sequence to shorten.

UUUAGCGUGACUUUCUUUCAACAGCUAACAAUUGUUGUAAAAACGAUUGG
AGGAUGAGACAUGAACGCUCAA
Energy:-16.3

Mutation GriffShort2:

Changed some bases to increase pairing.

UUUAGCGUUCCUUUCUUUCAACAGCUAACAAUUGUUGUAAAAACGAUUGG
AGGAUGAGACAUGAACGCUCAA
Energy:-19.8

Mutation9:

Continued base changes to increase pairing.

UUUAGCGUUCCUUUCUUUCAACAGCUAACAAUUGUUGUAAAAACGAUUGG
AGGAUGAGACAUGAACGCUCAA
Energy:-17.7

Mutation10:

UUUAGCGCUCCUUUCUUUCAACAGCUAACAAUUGUUGUAAAAACGAUUGG
AGGAUGAGACAUGAGCGCUCAA
Energy:-22.2

Mutation11:

UUUGGCGCUCCUUUCUUUCAACAGCUAACAAUUGUUGUAAAAACGAUUGG
AGGAUGAGACAUGAGCGCCCAA
Energy:-24.2